

## Mason Andrew (Andy) Kass, PhD

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- Education** Doctor of Philosophy, Geophysics, *Colorado School of Mines* 2012
- PhD Dissertation: Quantitative analysis and interpretation of multichannel electromagnetic data through principal component analysis and regularized inversion
  - President, Society of Geophysics Graduate Students, 2008-2009
- Bachelor of Science, Geophysical Engineering, *Colorado School of Mines* 2005
- Vice President, Society of Student Geophysicists (SEG Chapter), 2004-2005
- Experience** **US Geological Survey** Denver, CO *September 2011 - Present*
- Research Geophysicist with the Crustal Geophysics and Geochemistry Science Center (CGGSC)
- Colorado School of Mines** Golden, CO
- Research Assistant 2004-2012
  - Teacher's Assistant 2006
  - Laboratory Assistant 2003-2004
- Aspect Energy, LLC** Denver, CO 2004
- Seismic Interpreter
- Honors and Awards** Laric Hawkins Memorial Award (ASEG/PESA) 2010
- Shirley A. and Stan H. Ward Award (SEG) 2007
- John C. Hollister Award (Dept. of Geophysics, CSM) 2005
- Selected Publications and Proceedings** **Kass, M.A.**, and Y. Li, 2012, Inversion of multichannel geophysical data with projected kernels, *Geophysical Journal International*, in review (submitted October 10, 2012).
- Kass, M.A.**, and Y. Li, 2012, Quantitative analysis and interpretation of transient electromagnetic data via principal component analysis, *IEEE Transactions on Geoscience and Remote Sensing*, **50**, No. 5, pp 1910-1918.
- Kass, M.A.**, and Y. Li, 2012, Inversion of electromagnetic data processed by principal component analysis, 22<sup>nd</sup> International Geophysical Conference and Exhibition, ASEG, Brisbane, QLD, Australia.
- Kass, M.A.**, and Y. Li, 2011, Compressive inversion: A general framework for inverting large-scale multichannel geophysical data, International Workshop on Gravity, Electrical, and Magnetic Methods and Their Applications (GEM Beijing), Beijing, China, October 13, 2011.
- Davis, K., **Kass, M.A.**, and Y. Li, 2010, Rapid gravity and gravity gradiometry terrain correction via adaptive quadtree mesh discretization, *Exploration Geophysics*, **42**, No. 1, pp 88-97.
- Davis, K., **Kass, M.A.**, Krahenbuhl, R., and Y. Li, 2008, Survey design and model appraisal based on resolution analysis for 4D gravity monitoring, 78<sup>th</sup> SEG International Meeting, Las Vegas, NV, Expanded Abstracts 27.
- Kass, M.A.**, and Y. Li, 2008, Practical aspects of terrain correction in airborne gravity gradiometry surveys, *Exploration Geophysics*, **39**, No. 4, pp 198-203.